

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG101620\  
 Data File : BG046932.D  
 Acq On : 16 Oct 2020 16:04  
 Operator : CG/JU  
 Sample : L4201-10  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleID :  
 C0AL8

Manual Integrations  
 APPROVED

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 10/19/2020 1:23:18 PM

Quant Time: Oct 16 16:44:06 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG101520MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Oct 16 02:00:57 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.09  | 152  | 60736    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.89 | 136  | 249244   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.71 | 164  | 177232   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.46 | 188  | 374348   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.73 | 240  | 342020   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 24.99 | 264  | 344801   | 20.00 | ng/ul | 0.02     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.49  | 96  | 3987   | 2.91  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.23  | 99  | 99269  | 18.69 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.40  | 67  | 61045  | 19.67 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.61  | 132 | 78768  | 19.70 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.78  | 113 | 78736  | 18.40 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.24  | 128 | 41002  | 19.35 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.97  | 143 | 48097  | 19.91 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.51 | 165 | 93500  | 19.72 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.02 | 131 | 58860  | 10.80 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 14.11 | 166 | 317387 | 21.56 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.40 | 160 | 358537 | 21.36 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.89 | 143 | 44630  | 17.59 | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.70 | 176 | 279216 | 20.63 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.81 | 200 | 16246  | 6.30  | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.55 | 188 | 392669 | 21.66 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.84 | 212 | 408310 | 21.78 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 24.77 | 264 | 396868 | 20.44 | ng/ul | 0.02 |

## Target Compounds

|                                |       |     |         |        | Ovalue |    |
|--------------------------------|-------|-----|---------|--------|--------|----|
| 6) Phenol                      | 7.26  | 94  | 6036    | 1.075  | ng/ul# | 93 |
| 28) Naphthalene                | 10.94 | 128 | 17523   | 1.218  | ng/ul# | 95 |
| 45) Dimethylphthalate          | 14.15 | 163 | 89984   | 5.895  | ng/ul  | 97 |
| 50) Acenaphthene               | 14.77 | 153 | 23954   | 2.014  | ng/ul  | 91 |
| 54) Dibenzofuran               | 15.11 | 168 | 26351   | 1.491  | ng/ul  | 99 |
| 59) Fluorene                   | 15.75 | 166 | 27088   | 1.867  | ng/ul  | 94 |
| 70) Phenanthrene               | 17.50 | 178 | 532427  | 24.856 | ng/ul  | 98 |
| 72) Anthracene                 | 17.59 | 178 | 114701  | 5.301  | ng/ul  | 96 |
| 75) Carbazole                  | 17.85 | 167 | 56796   | 3.269  | ng/ul  | 94 |
| 76) Di-n-butylphthalate        | 18.41 | 149 | 49461   | 2.175  | ng/ul  | 98 |
| 77) Fluoranthene               | 19.51 | 202 | 839117  | 32.080 | ng/ul  | 99 |
| 80) Pyrene                     | 19.87 | 202 | 650547  | 28.106 | ng/ul  | 99 |
| 83) Benzo(a)anthracene         | 21.71 | 228 | 418852  | 17.744 | ng/ul  | 99 |
| 84) Bis(2-ethylhexyl)phthalate | 21.61 | 149 | 33925   | 2.821  | ng/ul# | 95 |
| 85) Chrysene                   | 21.77 | 228 | 381242m | 16.739 | ng/ul  |    |
| 88) Benzo(b)fluoranthene       | 23.96 | 252 | 457917  | 19.145 | ng/ul  | 99 |
| 89) Benzo(k)fluoranthene       | 24.01 | 252 | 191247m | 8.292  | ng/ul  |    |
| 91) Benzo(a)pyrene             | 24.84 | 252 | 309571  | 14.397 | ng/ul  | 94 |
| 92) Indeno(1,2,3-cd)pyrene     | 28.70 | 276 | 215259  | 8.172  | ng/ul  | 98 |
| 93) Dibenz(a,h)anthracene      | 28.76 | 278 | 58097   | 2.660  | ng/ul# | 91 |
| 94) Benzo(a,h,i)perylene       | 29.86 | 276 | 164146m | 7.423  | ng/ul  |    |

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG101620\  
Data File : BG046932.D  
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Operator : CG/JU  
Sample : L4201-10  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
C0AL8

Manual Integrations  
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Quant Time: Oct 16 16:44:06 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG101520MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Oct 16 02:00:57 2020  
Response via : Initial Calibration

| Internal Standards                                                         | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                      |      |      |          |      |       |          |
| (#) = qualifier out of range (m) = manual integration (+) = signals summed |      |      |          |      |       |          |

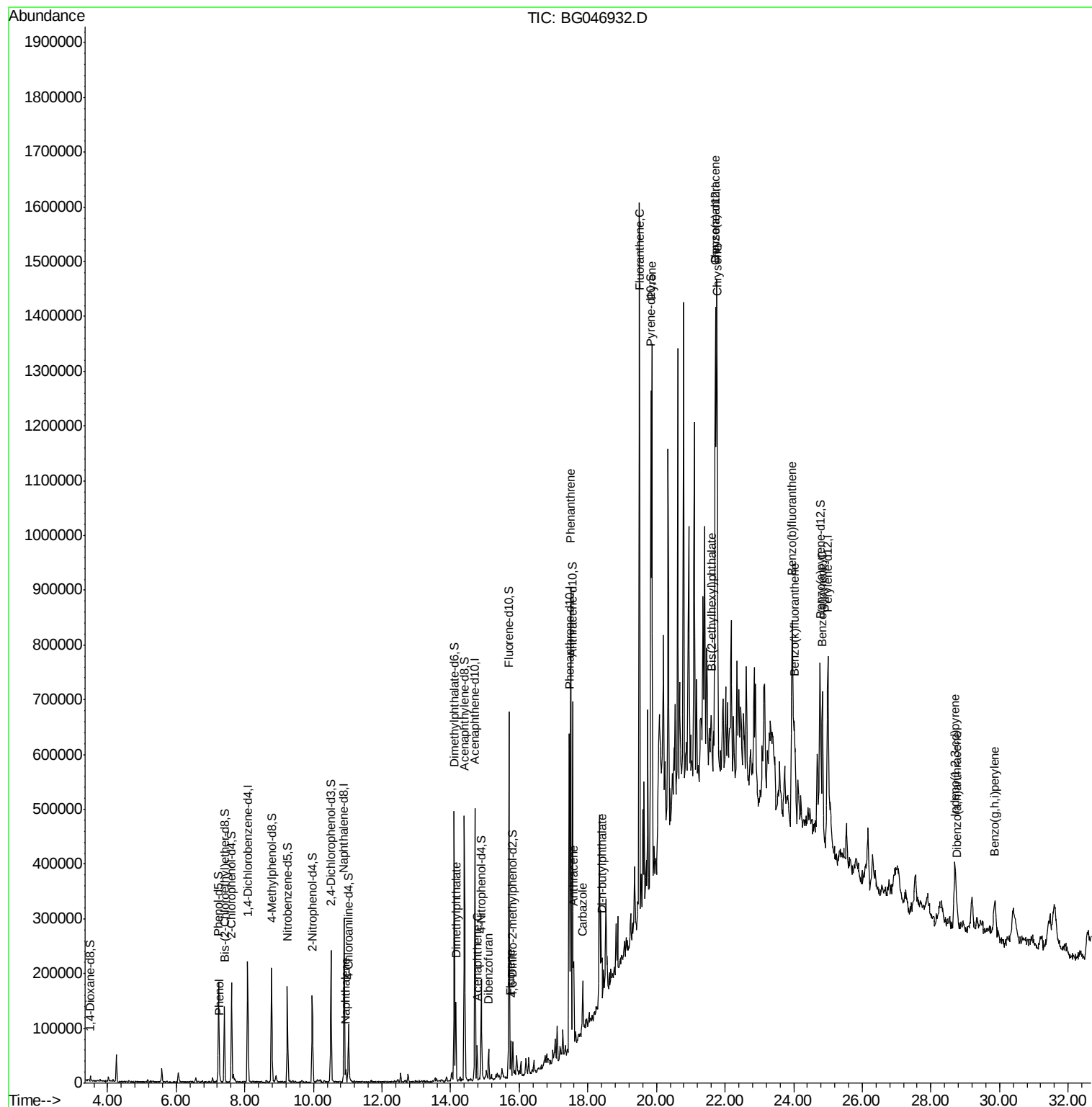
Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG101620\  
Data File : BG046932.D  
Acq On : 16 Oct 2020 16:04  
Operator : CG/JU  
Sample : L4201-10  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

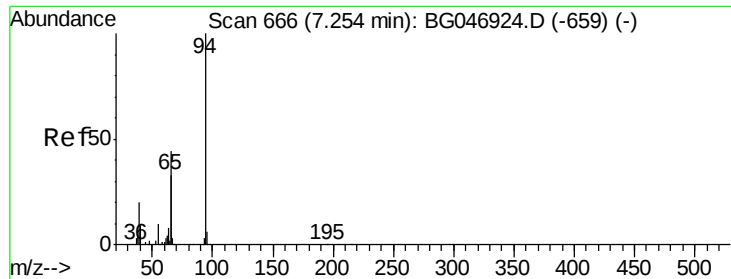
Instrument :  
BNA\_G  
ClientSampled :  
C0AL8

Quant Time: Oct 16 16:44:06 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG101520MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Oct 16 02:00:57 2020  
Response via : Initial Calibration

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#6

Phenol

Concen: 1.075 ng/ul

RT: 7.26 min Scan# 668

Delta R.T. 0.01 min

Lab File: BG046932.D

Acq: 16 Oct 2020 16:04

Instrument :

BNA\_G

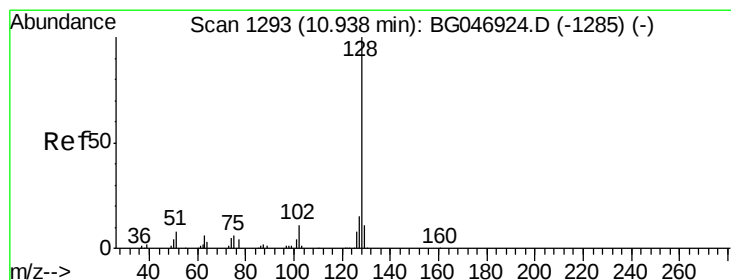
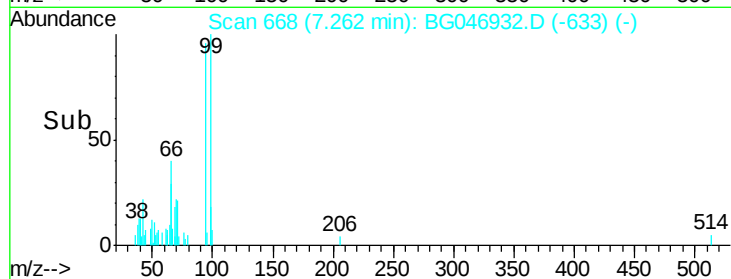
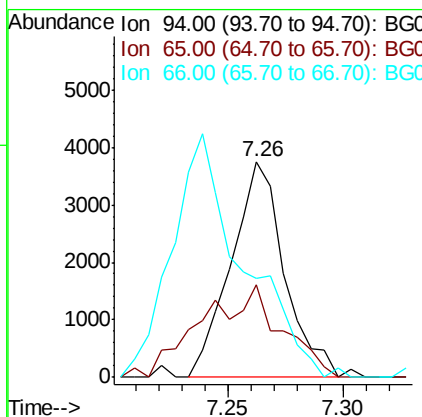
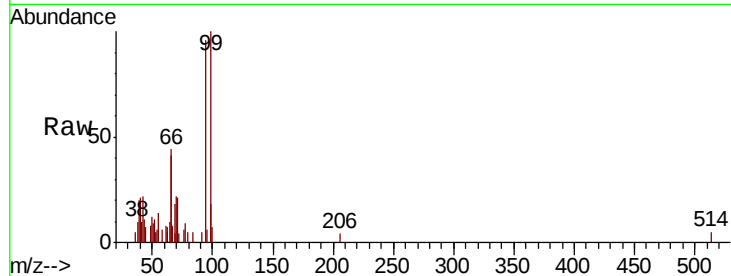
ClientSampled :

COAL8

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 94    | Resp: | 6036  |
| Ion      | Ratio | Lower | Upper |
| 94       | 100   |       |       |
| 65       | 42.7  | 27.8  | 41.6# |
| 66       | 45.8  | 35.9  | 53.9  |

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#28

Naphthalene

Concen: 1.218 ng/ul

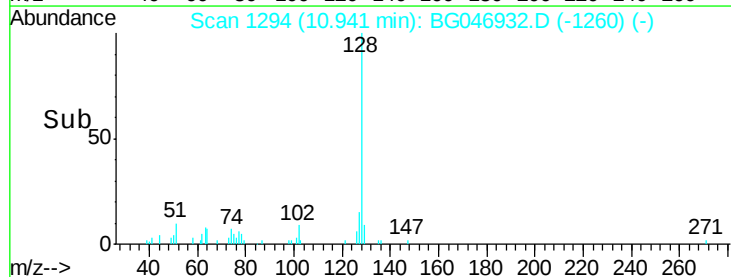
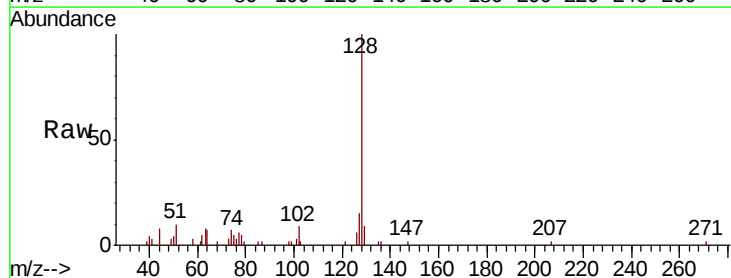
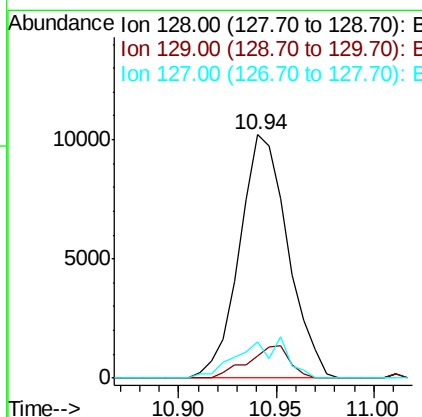
RT: 10.94 min Scan# 1294

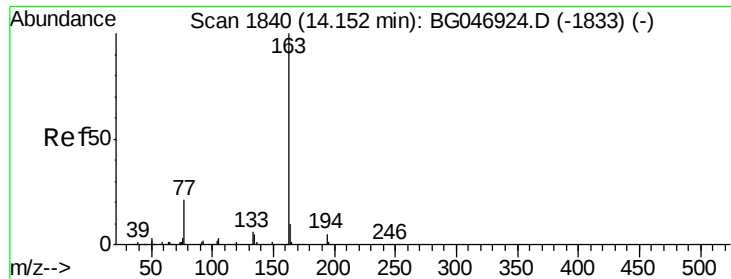
Delta R.T. -0.00 min

Lab File: BG046932.D

Acq: 16 Oct 2020 16:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 17523 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 9.4   | 9.8   | 14.6# |
| 127      | 14.8  | 11.0  | 16.4  |





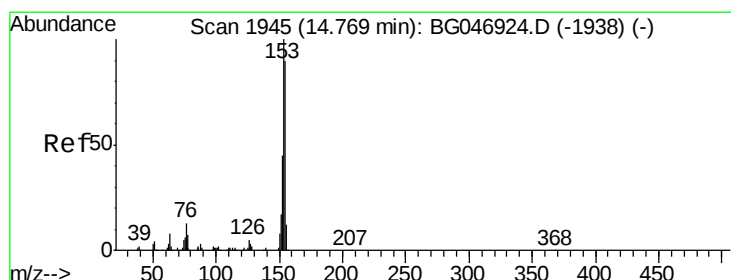
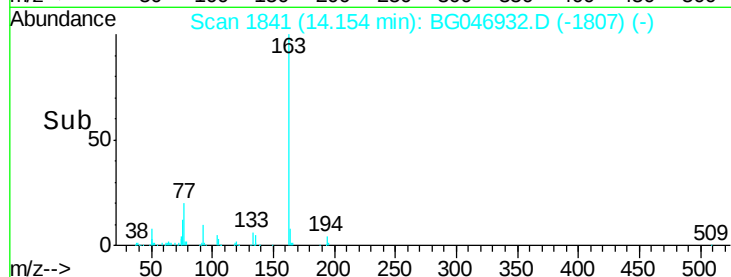
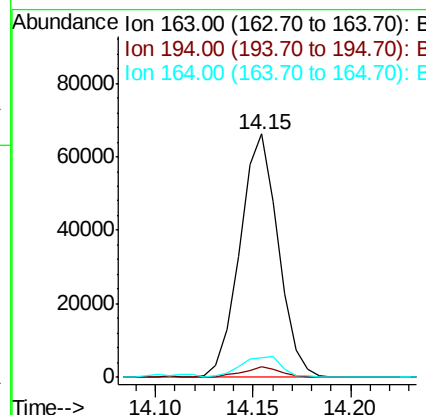
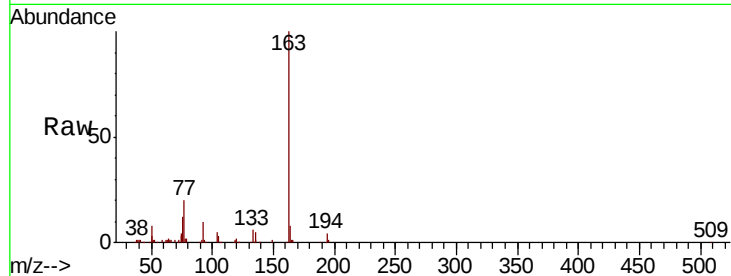
#45  
Dimethylphthalate  
Concen: 5.895 ng/ul  
RT: 14.15 min Scan# 1841  
Delta R.T. -0.00 min  
Lab File: BG046932.D  
Acq: 16 Oct 2020 16:04

Instrument :  
BNA\_G  
ClientSampleId :  
C0AL8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.4   | 3.9   | 5.9   |
| 164     | 8.3   | 7.8   | 11.8  |

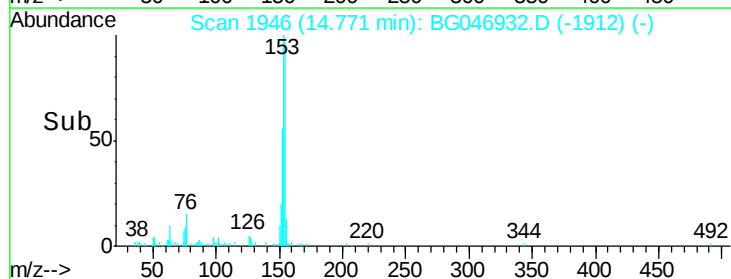
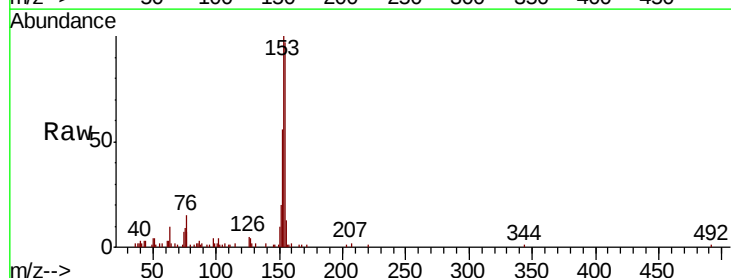
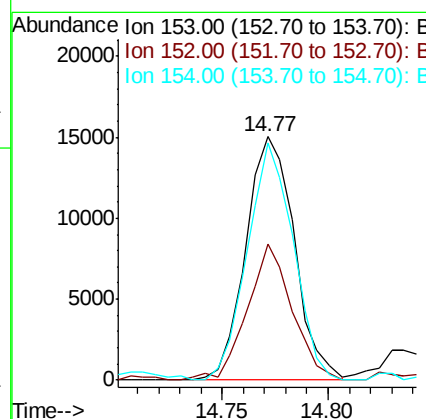
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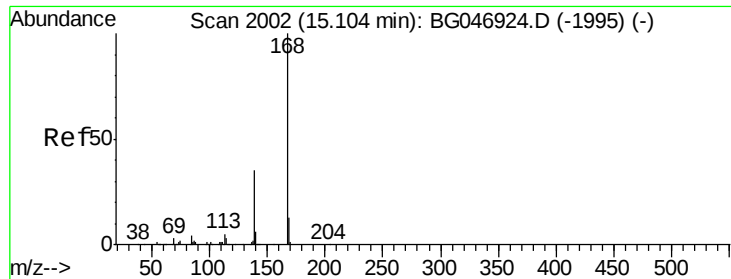
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#50  
Acenaphthene  
Concen: 2.014 ng/ul  
RT: 14.77 min Scan# 1946  
Delta R.T. -0.00 min  
Lab File: BG046932.D  
Acq: 16 Oct 2020 16:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 153     | 100   |       |       |
| 152     | 56.1  | 39.0  | 58.6  |
| 154     | 97.5  | 71.6  | 107.4 |





#54

Dibenzenofuran

Concen: 1.491 ng/ul

RT: 15.11 min Scan# 2003

Delta R.T. 0.01 min

Lab File: BG046932.D

Acq: 16 Oct 2020 16:04

Instrument :

BNA\_G

ClientSampleId :

COAL8

Tot Ion:168 Resp: 26351

Ion Ratio Lower Upper

168 100

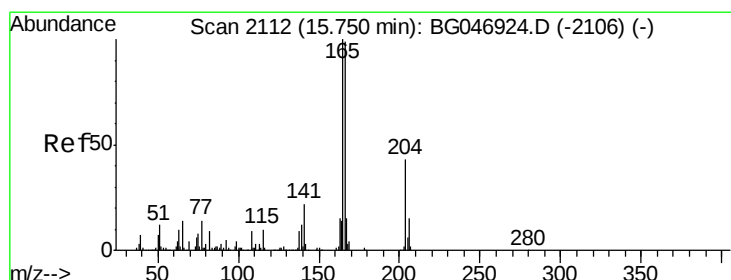
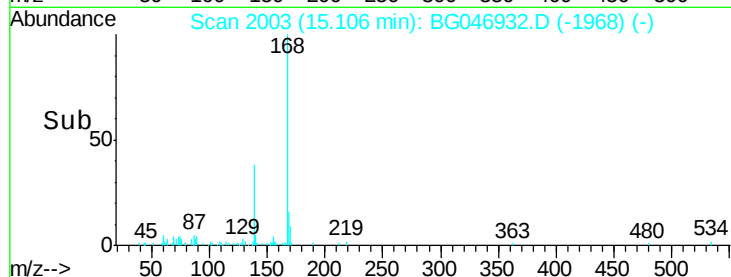
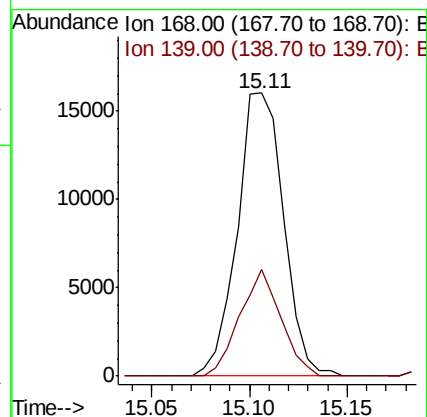
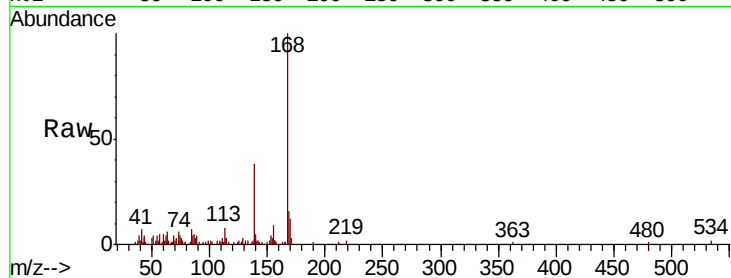
139 37.6 29.8 44.6

Manual Integrations

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#59

Fluorene

Concen: 1.867 ng/ul

RT: 15.75 min Scan# 2113

Delta R.T. -0.00 min

Lab File: BG046932.D

Acq: 16 Oct 2020 16:04

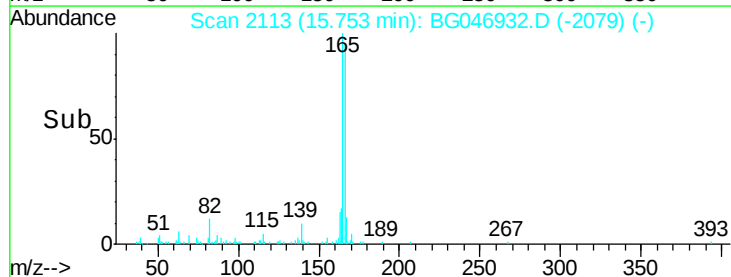
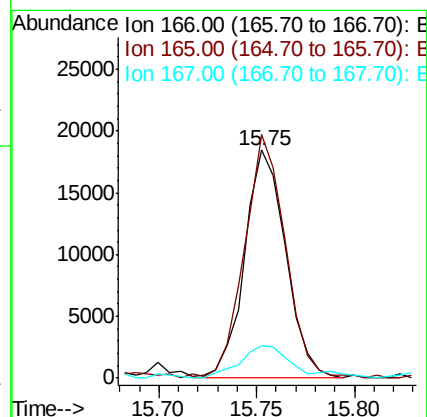
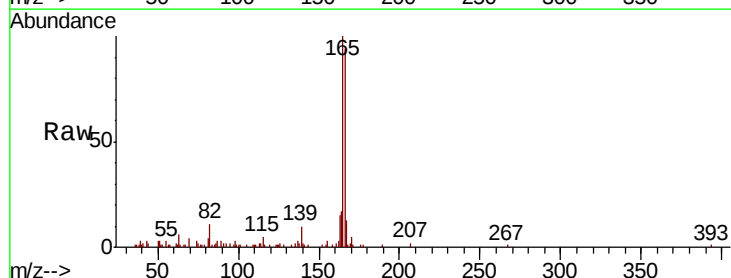
Tgt Ion:166 Resp: 27088

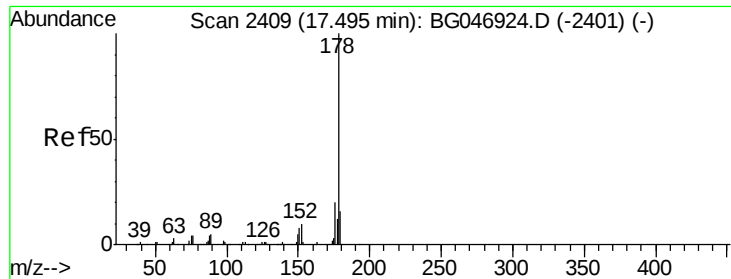
Ion Ratio Lower Upper

166 100

165 106.9 80.4 120.6

167 14.0 10.6 16.0





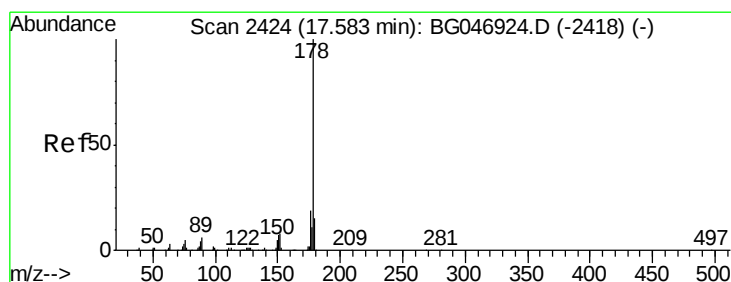
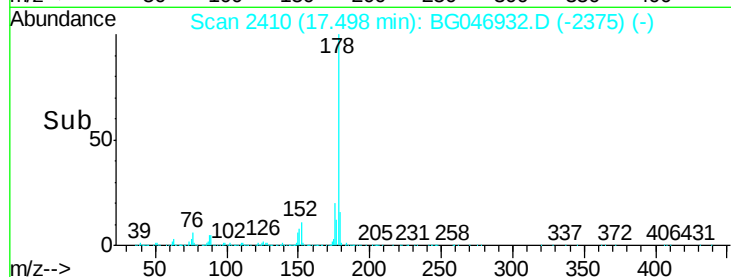
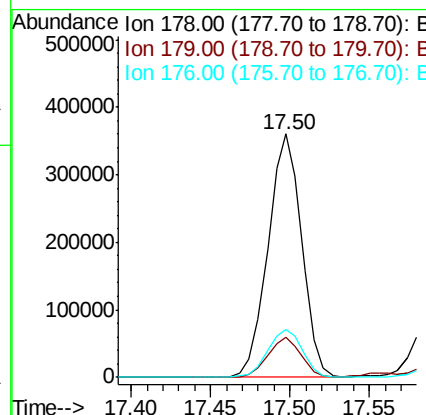
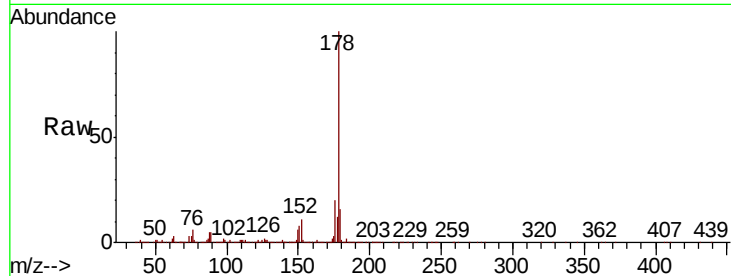
#70  
Phenanthrene  
Concen: 24.856 ng/ul  
RT: 17.50 min Scan# 2410  
Delta R.T. 0.01 min  
Lab File: BG046932.D  
Acq: 16 Oct 2020 16:04

Instrument :  
BNA\_G  
ClientSampleId :  
C0AL8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.3  | 12.5  | 18.7  |
| 176     | 19.6  | 15.0  | 22.4  |

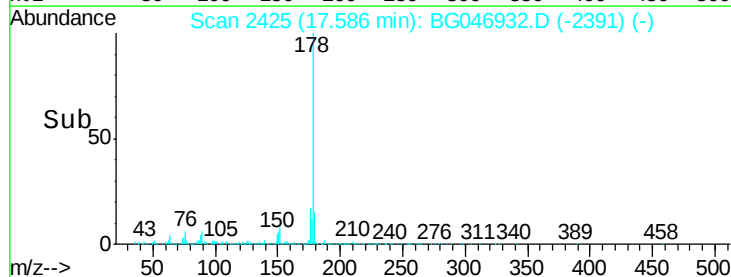
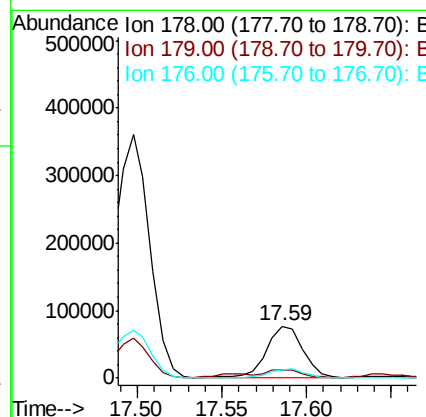
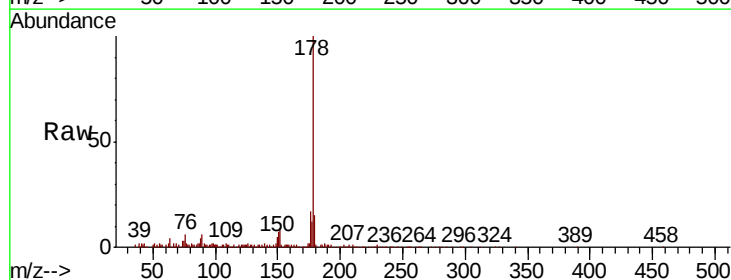
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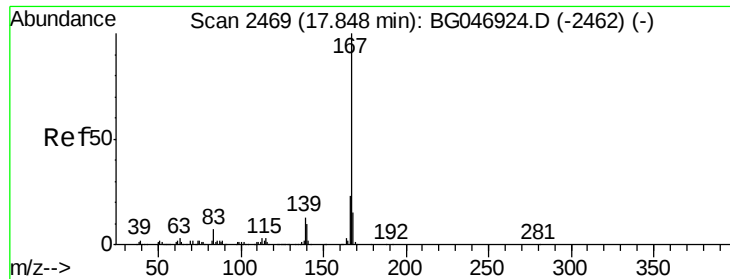
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#72  
Anthracene  
Concen: 5.301 ng/ul  
RT: 17.59 min Scan# 2425  
Delta R.T. -0.00 min  
Lab File: BG046932.D  
Acq: 16 Oct 2020 16:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.3  | 12.2  | 18.4  |
| 176     | 16.8  | 16.2  | 24.4  |





#75

Carbazole

Concen: 3.269 ng/ul

RT: 17.85 min Scan# 2470

Delta R.T. -0.00 min

Lab File: BG046932.D

Acq: 16 Oct 2020 16:04

Instrument :

BNA\_G

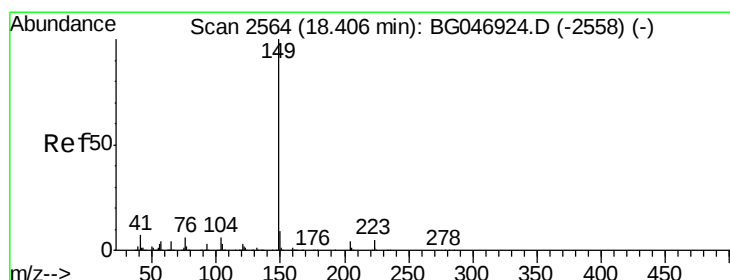
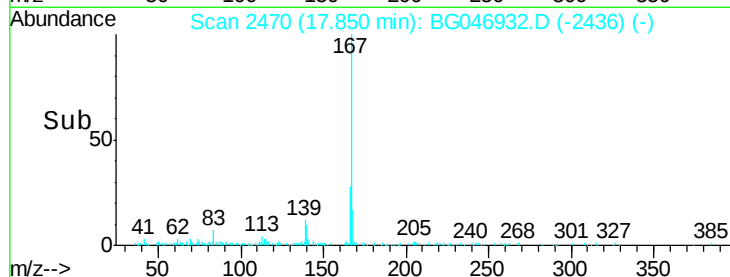
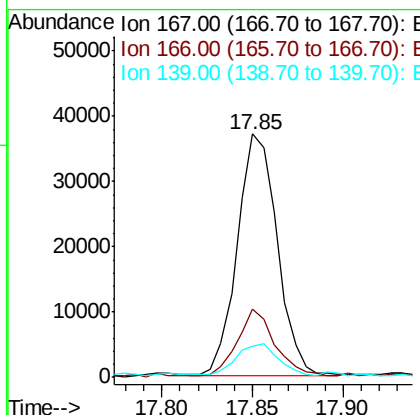
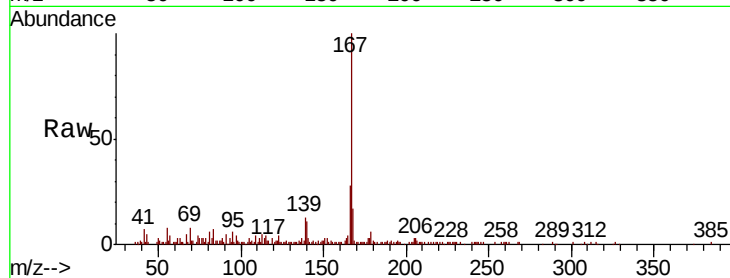
ClientSampleId :

COAL8

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 167   | Resp: | 56796 |
| Ion      | Ratio | Lower | Upper |
| 167      | 100   |       |       |
| 166      | 27.8  | 18.6  | 27.8  |
| 139      | 12.6  | 10.3  | 15.5  |

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#76

Di-n-butylphthalate

Concen: 2.175 ng/ul

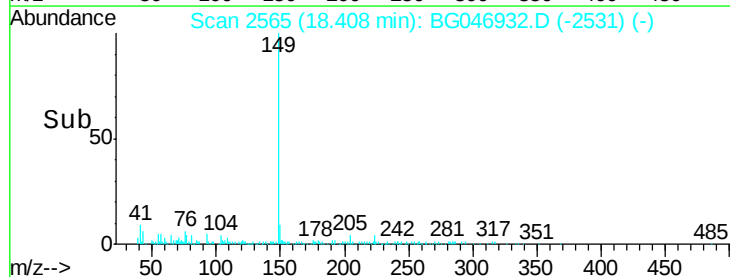
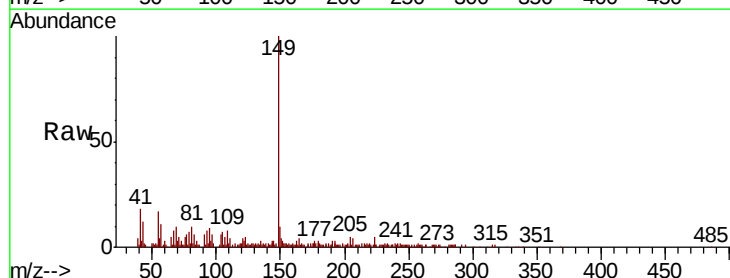
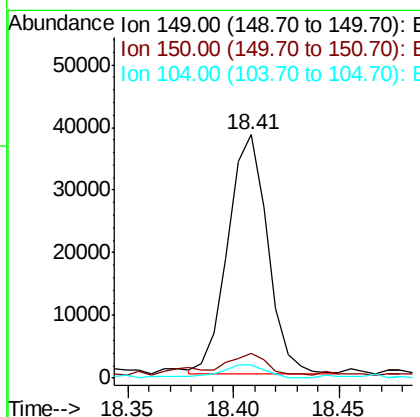
RT: 18.41 min Scan# 2565

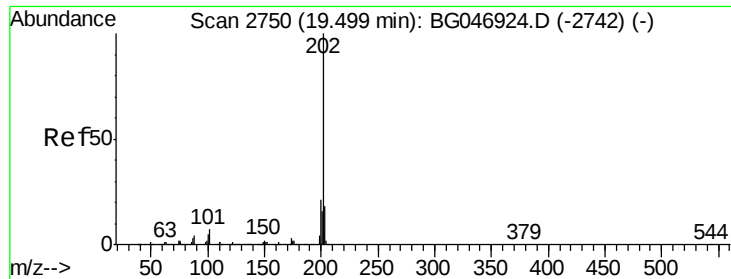
Delta R.T. -0.00 min

Lab File: BG046932.D

Acq: 16 Oct 2020 16:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 149   | Resp: | 49461 |
| Ion      | Ratio | Lower | Upper |
| 149      | 100   |       |       |
| 150      | 10.4  | 7.6   | 11.4  |
| 104      | 5.7   | 4.8   | 7.2   |





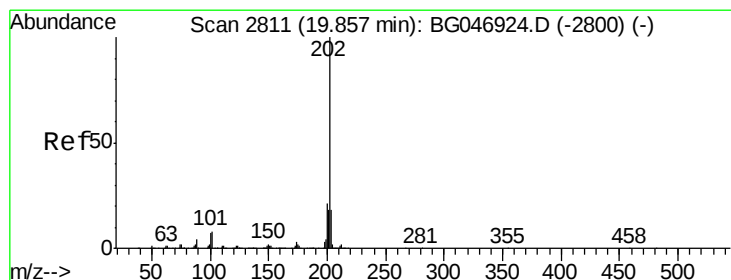
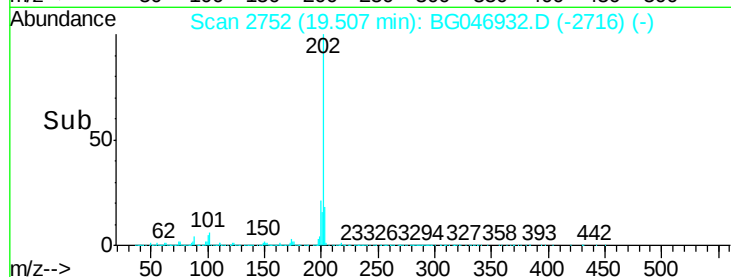
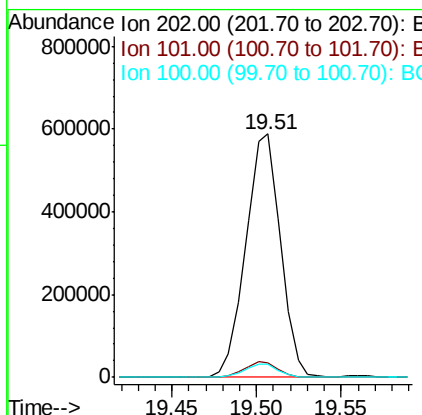
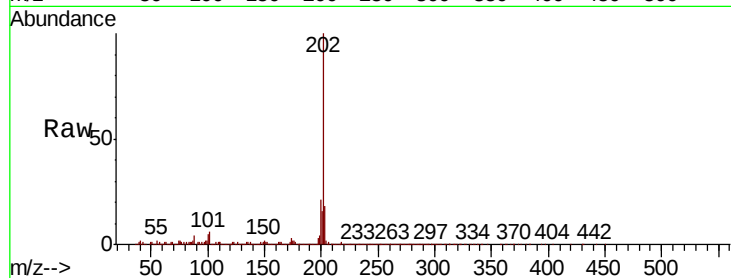
#77  
Fluoranthene  
Concen: 32.080 ng/ul  
RT: 19.51 min Scan# 2752  
Delta R.T. 0.01 min  
Lab File: BG046932.D  
Acq: 16 Oct 2020 16:04

Instrument :  
BNA\_G  
ClientSampleId :  
C0AL8

| Tot Ion | Ion | Ratio | Resp   | Lower | Upper |
|---------|-----|-------|--------|-------|-------|
| 202     | 100 |       | 839117 |       |       |
| 101     | 6.0 | 4.9   | 7.3    |       |       |
| 100     | 5.2 | 4.6   | 6.8    |       |       |

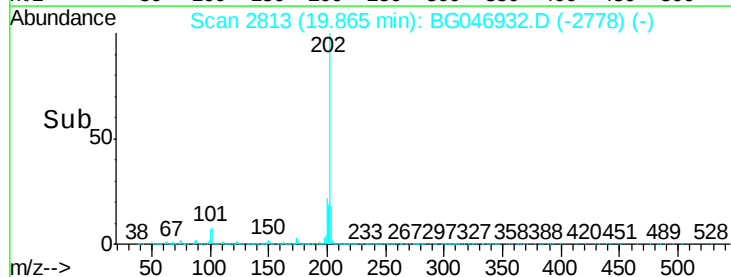
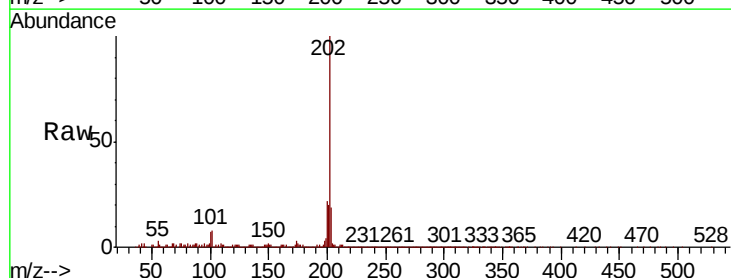
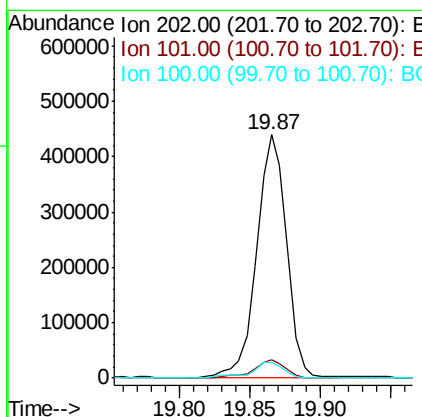
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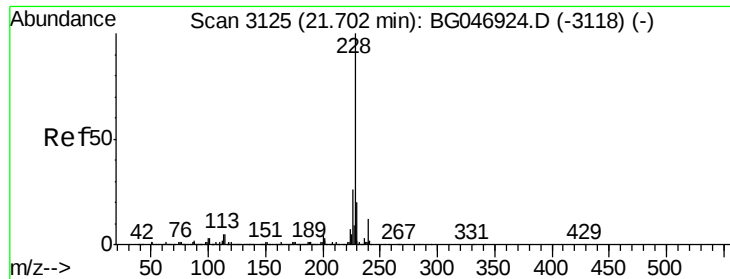
mohammad  
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#80  
Pyrene  
Concen: 28.106 ng/ul  
RT: 19.87 min Scan# 2813  
Delta R.T. 0.01 min  
Lab File: BG046932.D  
Acq: 16 Oct 2020 16:04

| Tgt Ion | Ion | Ratio | Resp   | Lower | Upper |
|---------|-----|-------|--------|-------|-------|
| 202     | 100 |       | 650547 |       |       |
| 101     | 7.5 | 6.5   | 9.7    |       |       |
| 100     | 6.5 | 5.2   | 7.8    |       |       |





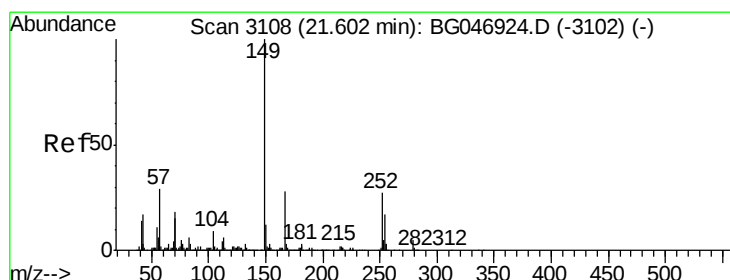
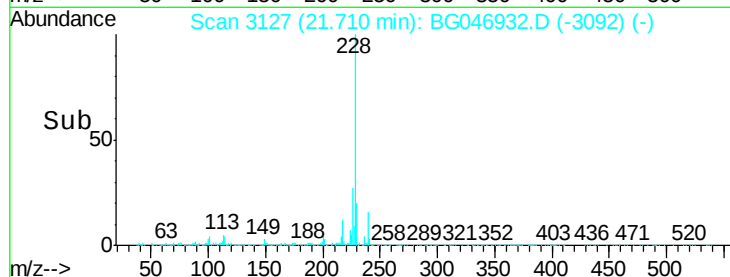
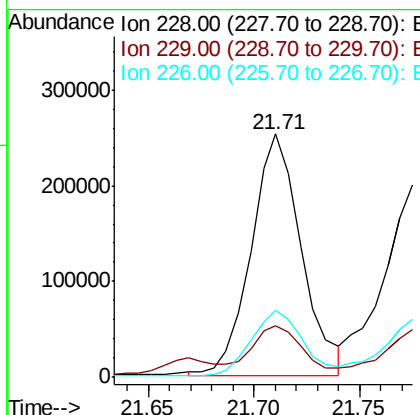
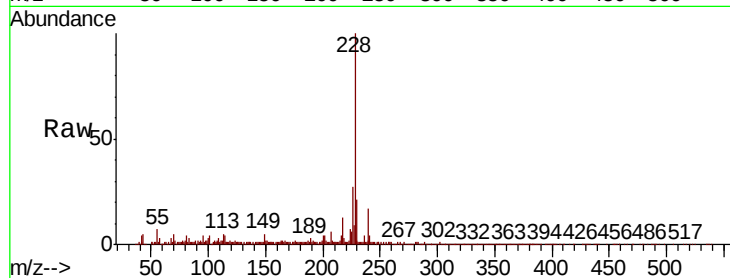
#83  
Benzo(a)anthracene  
Concen: 17.744 ng/ul  
RT: 21.71 min Scan# 3127  
Delta R.T. 0.01 min  
Lab File: BG046932.D  
Acq: 16 Oct 2020 16:04

Instrument :  
BNA\_G  
ClientSampleId :  
C0AL8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 21.2  | 16.2  | 24.2  |
| 226     | 27.3  | 21.6  | 32.4  |

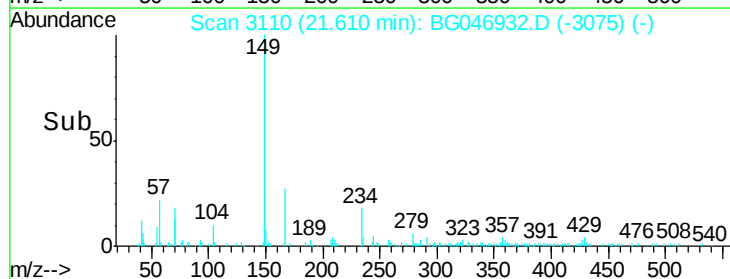
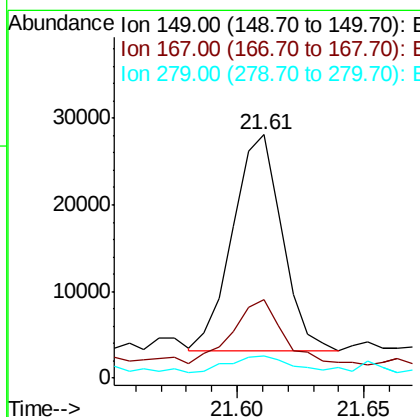
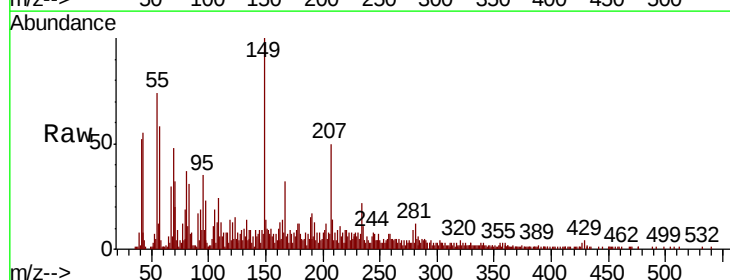
Manual Integrations  
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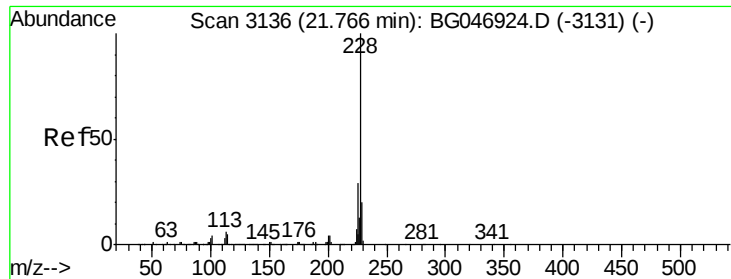
mohammad  
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#84  
Bis(2-ethylhexyl)phthalate  
Concen: 2.821 ng/ul  
RT: 21.61 min Scan# 3110  
Delta R.T. 0.01 min  
Lab File: BG046932.D  
Acq: 16 Oct 2020 16:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 32.0  | 23.7  | 35.5  |
| 279     | 9.0   | 4.6   | 7.0   |





#85

Chrysene

Concen: 16.739 ng/ul m

RT: 21.77 min Scan# 3138

Delta R.T. 0.01 min

Lab File: BG046932.D

Acq: 16 Oct 2020 16:04

Instrument :

BNA\_G

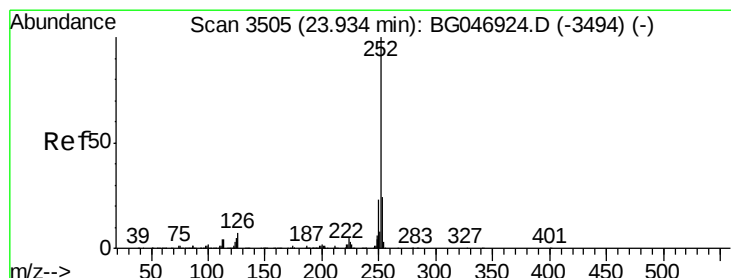
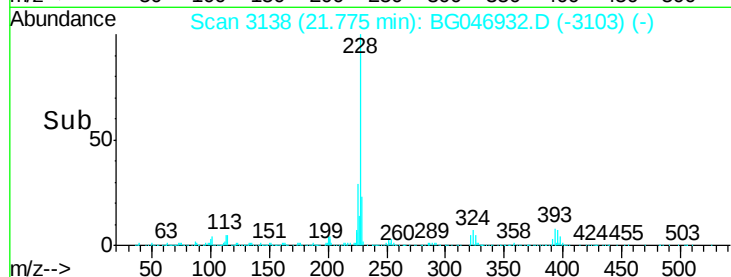
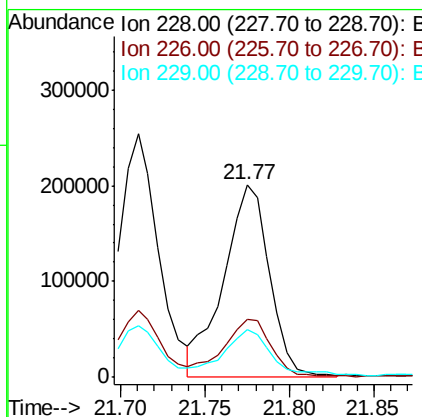
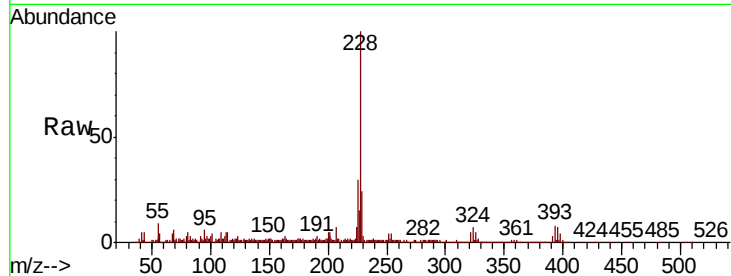
ClientSampleId :

C0AL8

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 381242 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 29.9  | 23.2  | 34.8   |
| 229       | 24.5  | 15.6  | 23.4#  |

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#88

Benzo(b)fluoranthene

Concen: 19.145 ng/ul

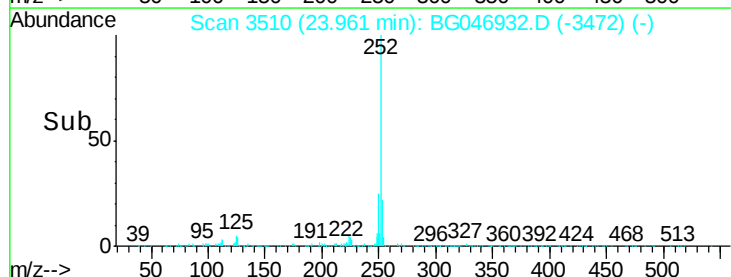
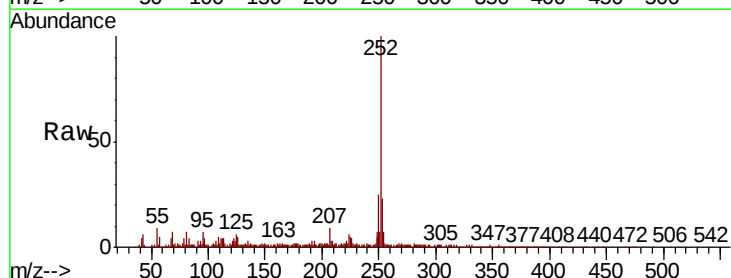
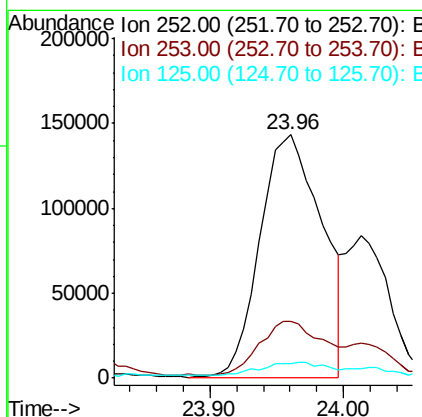
RT: 23.96 min Scan# 3510

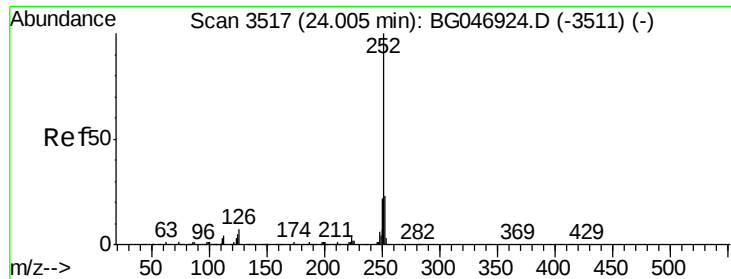
Delta R.T. 0.02 min

Lab File: BG046932.D

Acq: 16 Oct 2020 16:04

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 457917 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.2  | 18.2  | 27.2   |
| 125       | 6.1   | 4.6   | 7.0    |





#89

Benzo(k)fluoranthene

Concen: 8.292 ng/ul

RT: 24.01 min Scan# 3519

Delta R.T. 0.01 min

Lab File: BG046932.D

Acq: 16 Oct 2020 16:04

Instrument :

BNA\_G

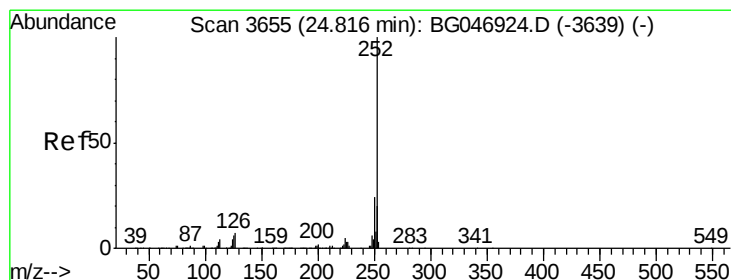
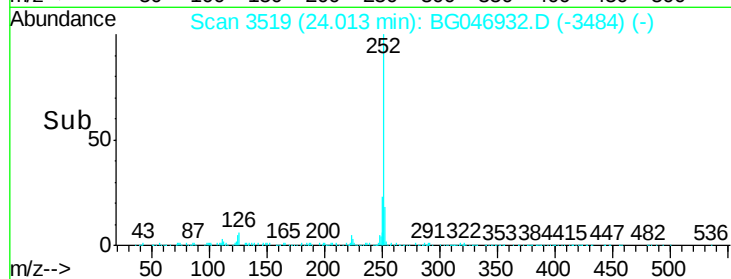
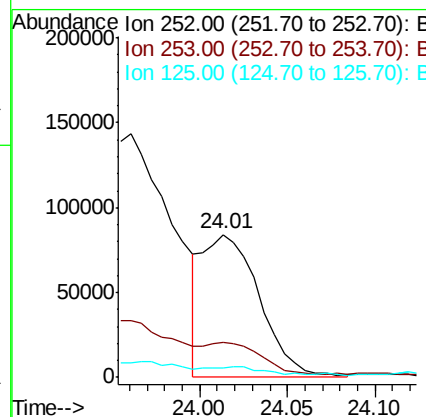
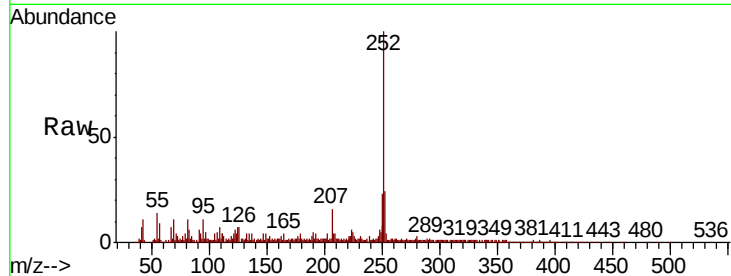
ClientSampleId :

COAL8

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 191247 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 24.1  | 17.7  | 26.5   |
| 125       | 7.0   | 4.2   | 6.4#   |

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#91

Benzo(a)pyrene

Concen: 14.397 ng/ul

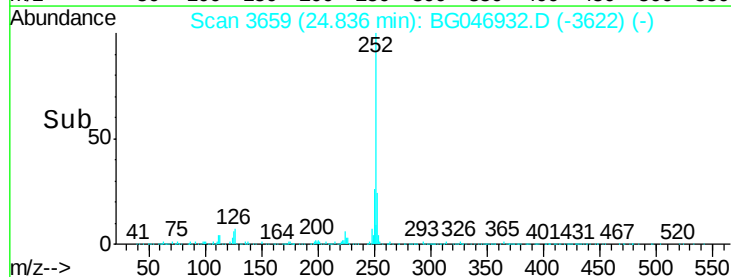
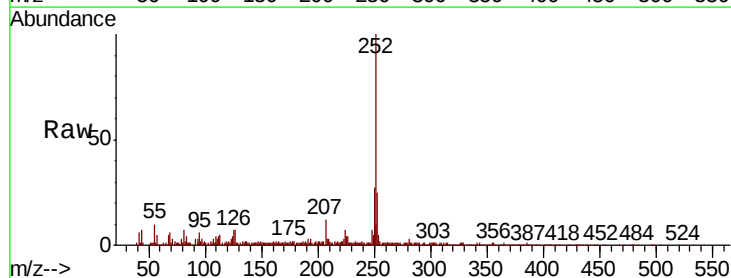
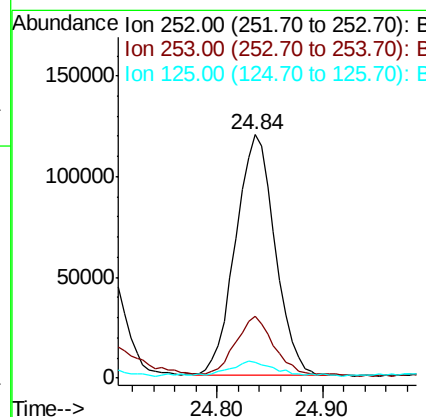
RT: 24.84 min Scan# 3659

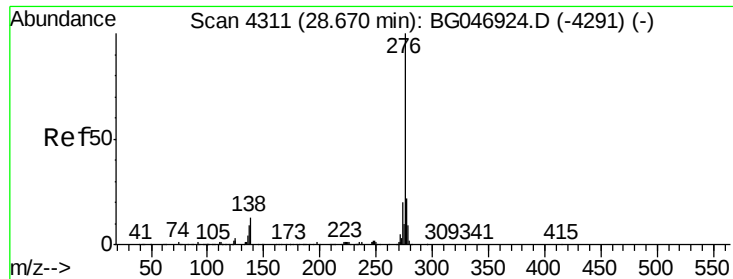
Delta R.T. 0.02 min

Lab File: BG046932.D

Acq: 16 Oct 2020 16:04

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 309571 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 25.2  | 17.2  | 25.8   |
| 125       | 6.7   | 5.4   | 8.0    |





#92

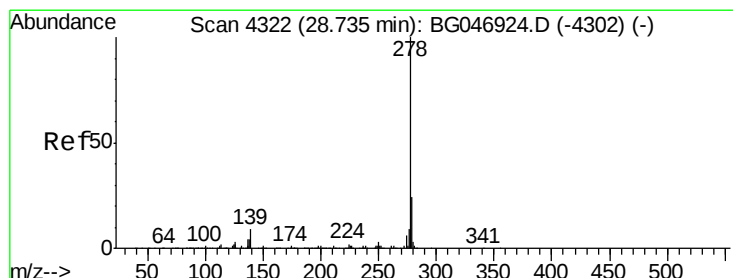
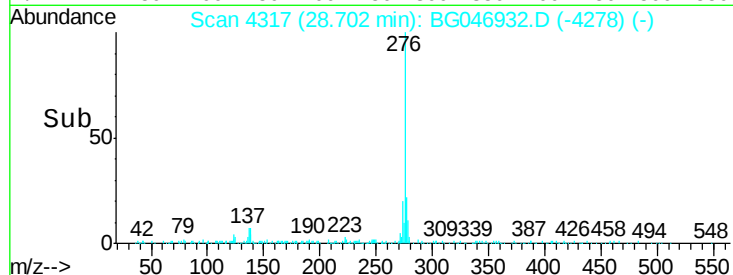
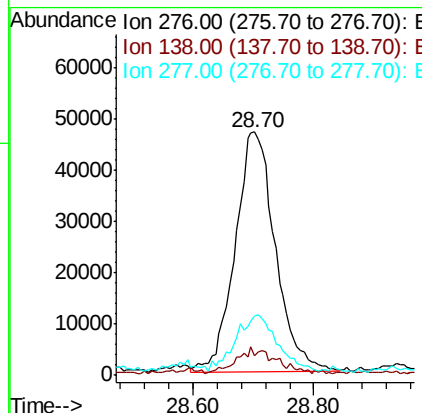
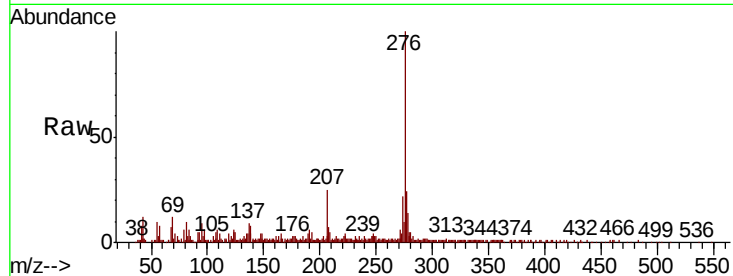
Indeno(1,2,3-cd)pyrene  
Concen: 8.172 ng/ul  
RT: 28.70 min Scan# 4317  
Delta R.T. 0.03 min  
Lab File: BG046932.D  
Acq: 16 Oct 2020 16:04

Instrument :  
BNA\_G  
ClientSampleId :  
C0AL8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 11.6  | 7.8   | 11.6  |
| 277     | 24.2  | 19.4  | 29.2  |

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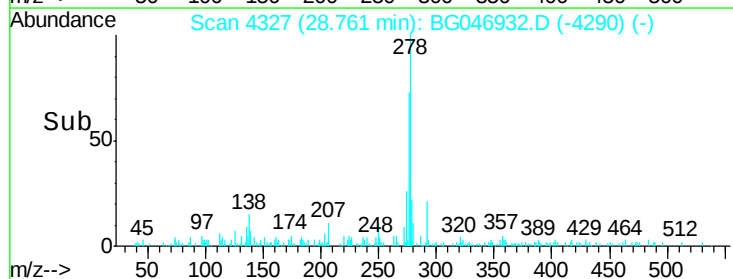
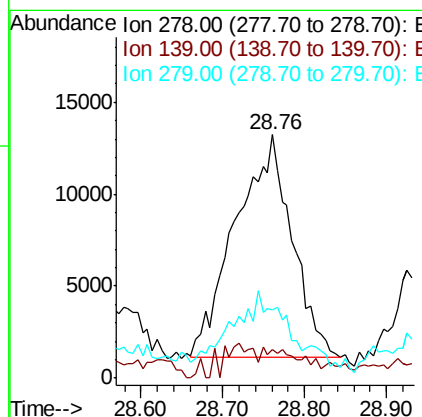
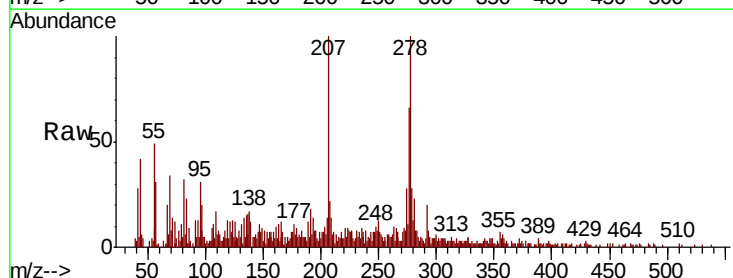
mohammad  
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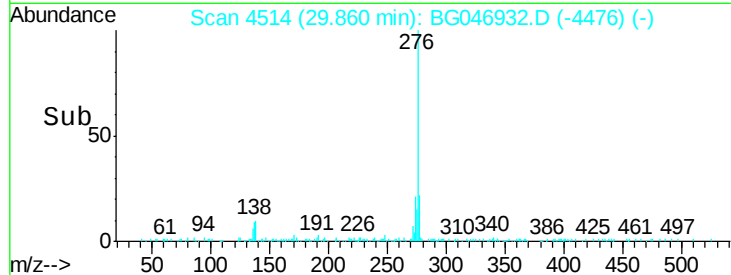
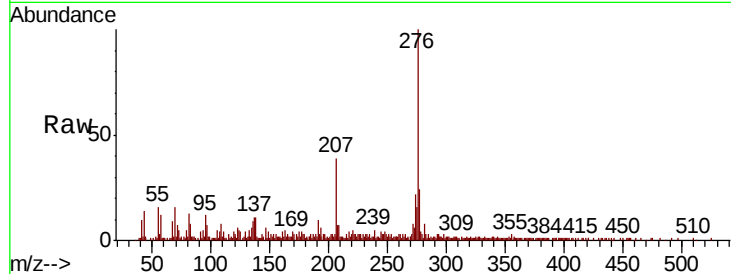
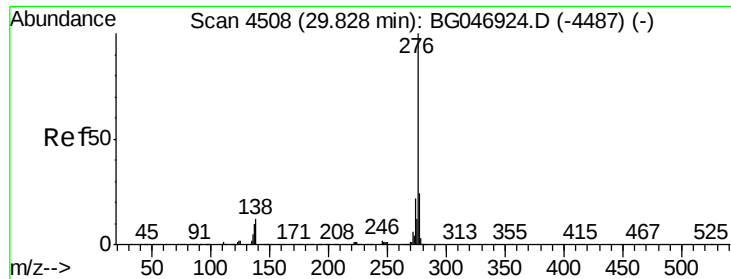


#93

Dibenzo(a,h)anthracene  
Concen: 2.660 ng/ul  
RT: 28.76 min Scan# 4327  
Delta R.T. 0.02 min  
Lab File: BG046932.D  
Acq: 16 Oct 2020 16:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 11.9  | 7.0   | 10.6# |
| 279     | 28.1  | 19.0  | 28.4  |





#94  
Benzo(a,h,i)perylene  
Concen: 7.423 ng/ul m  
RT: 29.86 min Scan# 4514  
Delta R.T. 0.02 min  
Lab File: BG046932.D  
Acq: 16 Oct 2020 16:04

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 276   | Resp: | 164146 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 10.9  | 8.5   | 12.7   |
| 277       | 24.2  | 18.5  | 27.7   |

Instrument :  
BNA\_G  
ClientSampleId :  
C0AL8

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